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**BICS-031** 

## DIPLOMA - VIEP - COMPUTER SCIENCE AND ENGINEERING (DCSVI)/ADVANCED LEVEL CERTIFICATE COURSE IN COMPUTER SCIENCE AND ENGINEERING (ACCSVI)

## Term-End Examination June, 2016

00706

## **BICS-031: BASICS OF NETWORKING**

Ti	me : 2 I	hours Maximum Marks : 7	Maximum Marks : 70 s. Each question carries	
No		ttempt any <b>five</b> questions. Each question carrie qual marks.		
1.	(a)	What are the main functions of the network layer in OSI model?	7	
	(b)	Describe TCP/IP model in Computer Communication network.	7	
2.	(a)	Differentiate between twisted pair, coaxial cable and fiber optics.	7	
	(b)	What is meant by Simplex and Half-duplex communication systems? Give representative examples of each.	7	
3.	(a)	Describe the process of printer sharing and file sharing in a network.	7	
	(b)	Explain the functions of gateway and bridge in a network.	7	
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4.	(a)	Define the term Router. Describe it with the help of an example.	7
	(b)	How does the transport layer ensure that the complete message arrives at the	
		destination and in the proper order?	7
5.	(a)	Define a protocol. What are the functions of ICMP and PPP?	¹ <b>7</b>
	(b)	Explain IP Addressing in detail.	
		Differentiate between Registered and	
		Unregistered Addressing.	7
6.	(a)	Briefly describe the various classes of	
		IP addresses.	7
	(b)	Describe the operation of ARP in detail.	7
7.	Write follow	e short notes on any <b>four</b> of the ving: $4\times 3\frac{1}{2}=$	=14
	(a)	DSL	
	(b)	HTTP	
	(c)	SLIP	
	(d)	Subnet Masking	
	(e)	Handshaking	